

CLAIM AMENDMENTS

1-7 (Cancelled)

8. (New) An arrangement in the fuel injection system for controlling the fuel injection, the arrangement comprising a body part having a space arranged therein, through which space the fuel to be injected during operation flows, and a fuel inlet opening and an outlet opening opening into the space, additionally the arrangement further comprises a piston means arranged movably inside the space, the piston means having a channel or the like arranged therein for creating a flow connection between the fuel inlet opening and the outlet opening, whereby in the arrangement the piston means can divide the space into a first part being in connection with the inlet opening and a second part being in connection with the outlet opening, the arrangement further comprising a spring or the like for creating a force acting on the piston means in a direction opposite to the main direction of the fuel flow, wherein in the arrangement the piston means and the body part delimit at least one third part as the piston means is in the end adjacent the inlet opening or near it, the volume of the third part being dependent on the mutual positions of the piston means and the body part.

9. (New) An arrangement according to claim 8, wherein the piston means and the space are cylindrically formed and together they form at least two separate sliding surfaces formed at different distances from the central axis of the piston means and the space.

10. (New) An arrangement according to claim 8, wherein when the piston means is in the end adjacent the inlet opening the volume of the third part is at its smallest and as the piston means retracts a certain distance away from the end adjacent the inlet opening the volume of the third part increases and that as the piston means retracts beyond the certain distance, the third part and the first part of the space are combined.

11. (New) An arrangement according to claim 8, wherein the third part of the space is in continuous flow connection with the fuel inlet opening and/or the first part of the space.

12. (New) An arrangement according to claim 10, wherein the flow connection is achieved by means of a throttling channel or the like.

13. (New) An arrangement according to claim 8, wherein the space is cylindrical and it comprises at least two portions having different diameters, with the portion having the smaller diameter being in the end adjacent the inlet opening and that the piston means correspondingly comprising two portions having different diameters, with the portion having the smaller diameter being in the end adjacent the inlet opening and that both the longitudinal length of the portion of the piston means having the smaller diameter and the longitudinal length of the of the portion of the space having the smaller diameter are shorter than the length of the stroke of the piston means.

14. (New) An arrangement according to claim 8, wherein when the piston means is in the end adjacent the outlet opening the piston means joins the body part so that they together close the flow connection of fuel to the inlet opening.